



- Fire Sprinkler Systems
- Fire Alarm Systems
- Fire Evacuation Systems
- Fire Extinguishers
- Fire Hydrant Systems
- Fire Hose Reels

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Date: 17/04/2019

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No of Pages: 1

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**Re: 1-21 Grady Crescent Erskine Park Facility**

Referencing AS2118, the tyre storage on the floor up to 3.7m would be covered by the existing sprinkler system as there are K17 ESFR sprinklers installed according to the sprinkler block plan.

The flow test of the system shows that the installed pumps satisfy the fire sprinkler demand of 5703 l/min @ 940 kPa. Results show 5939 l/min @ 1005 kPa is achieved.

AS2118 Table 11.7.2.6(c) allows tyre storage on the floor in portable racks at 3.8m to be covered by the roof sprinkler system if providing a density of 16 mm/min over 186 m<sup>2</sup>. This equates to approximately 3500 l/min, the existing system provides in excess of this flow.

The crumbed rubber is assumed to be synthetic material which is a category 5 commodity and can be stored in the racks up to 4.6m without in rack sprinkler protection, Table 11.6.4(M) (10.7m maximum roof/ceiling height).

If the required storage height of the crumbed rubber is 7.6m (which is the maximum height allowed) there will need to be 2 levels of in rack sprinklers installed.

We would recommend the insurance company be consulted before any final decisions are made for the tyre storage proposal.



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